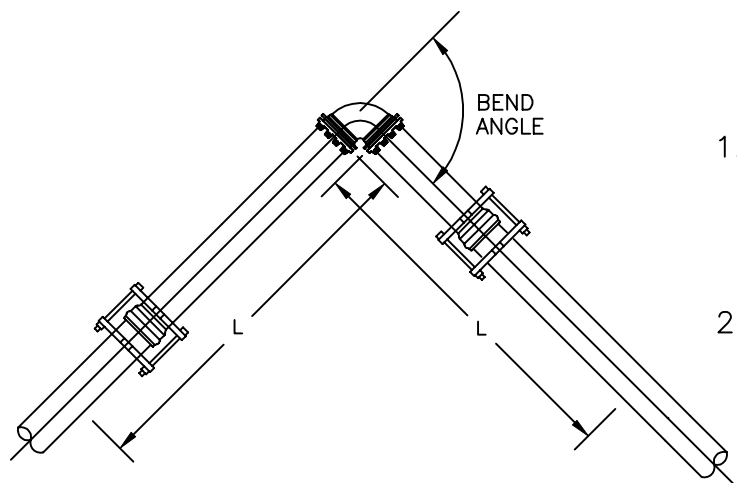


HORIZONTAL BEND

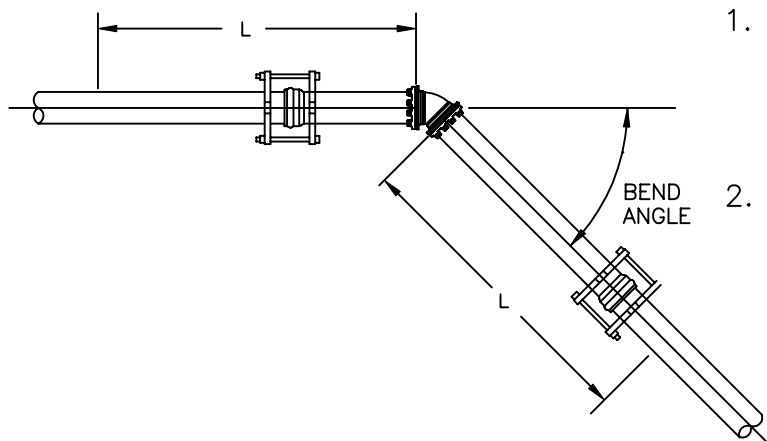


1. ALL JOINTS WITHIN LENGTH "L" MUST BE RESTRAINED. USE RETAINER GLAND AT MECHANICAL JOINTS AND HARNESS WITH PUSH-ON PIPE PER CITY STD. SPECIFICATIONS.
2. FOR TEST PRESSURES AND LAYING CONDITIONS SEE SECTION OF GENERAL NOTES FOR USE OF RESTRAINED JOINT LENGTHS.

		SIZE						
BEND ANGLE		4	6	8	10	12	14	16
	11.25	3	3	3	4	4	4	5
	22.5	3	4	7	7	8	9	10
	45	7	9	12	15	17	19	21
	90	16	23	29	35	40	45	51

RESTRAINED LENGTHS, "L" (IN FEET)

VERTICAL BEND



1. ALL JOINTS WITHIN LENGTH "L" MUST BE RESTRAINED. USE RETAINER GLAND AT MECHANICAL JOINTS AND HARNESS WITH PUSH-ON PIPE PER CITY STD. SPECIFICATIONS.
2. FOR TEST PRESSURES AND LAYING CONDITIONS SEE SECTION OF GENERAL NOTES FOR USE OF RESTRAINED JOINT LENGTHS.

		SIZE						
BEND ANGLE		4	6	8	10	12	14	16
	11.25	3	5	7	8	8	10	11
	22.5	7	11	12	15	17	20	22
	45	15	19	25	31	36	41	46

RESTRAINED LENGTHS, "L" (IN FEET)